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Publiée

Avec rapport de recherche internationale. Avant l'expiration du délai prévu pour la modification des revendications, sera republiée si de telles modifications sont reçues.

(54) Title: DEVICE FOR CHOOSING HAIR STYLES

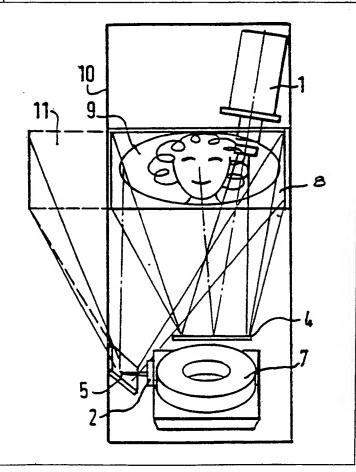
(54) Titre: DISPOSITIF DE SELECTION DE COIFFURES

(57) Abstract

Device for choosing hair styles by formation of a composite image by means of two projectors (1, 2), one (1) of which protects the client's image and the second (2) a hair style selected from a set of hair styles. An adjustable mask (14) is arranged on the optical path of the first projector (1) of the client's image, while a fixed matte (18) and a retractable mask are arranged between the screen and the second projector.

(57) Abrégé

Dispositif de sélection de coiffures par formation d'une image composite à l'aide de deux projecteurs (1, 2) dont l'un (1) projette l'image de la cliente et le second (2) une coiffure sélectionnée dans un ensemble de coiffures. Un masque ajustable (14) est disposé sur le trajet optique du premier projecteur (1) de l'image de la cliente, alors qu'un cache fixe (18) et un masque escamotable sont disposés entre l'écran et le second projecteur.



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REVENDICATIONS

- 1. Dispositif de sélection de coiffures par formation d'une image composite sur un écran (3) à partir d'un projecteur (1) projetant l'image actuelle d'une cliente, et d'un projecteur (2) projetant une série de modèles de coiffures, caractérisé en ce qu'il comprend un masque ajustable (14), disposé sur le trajet optique (1, 4, 3) de l'image de la cliente et un cache fixe (18) disposé sur le trajet optique (2, 5, 3) de l'image du modèle.
- 2. Dispositif selon la revendication 1, caractérisé en ce que la surface de projection de l'image du modèle est supérieure à la surface de projection de l'image de la cliente, la zone (11) excédentaire portant des informations complémentaires relatives au modèle projeté, les deux images projetées étant confondues sur l'écran (3).
- 3. Dispositif selon l'une des revendications 1 ou 2, caractérisé en ce qu'un masque (15) escamotable de l'image du modèle constitue une partie du masque (14) de l'image de la cliente.
- 4. Dispositif selon l'une quelconque des revendications précédentes, caractérisé en ce que l'écran (3) est partiellement masqué par un cache (8), délimitant une zone de projection (9) circulaire.
- 5. Dispositif selon l'une quelconque des revendications précédentes, caractérisé en ce que les différents organes sont inclus dans un cabinet (10), l'écran complémentaire (11) étant escamotable à l'intérieur du cabinet (10).

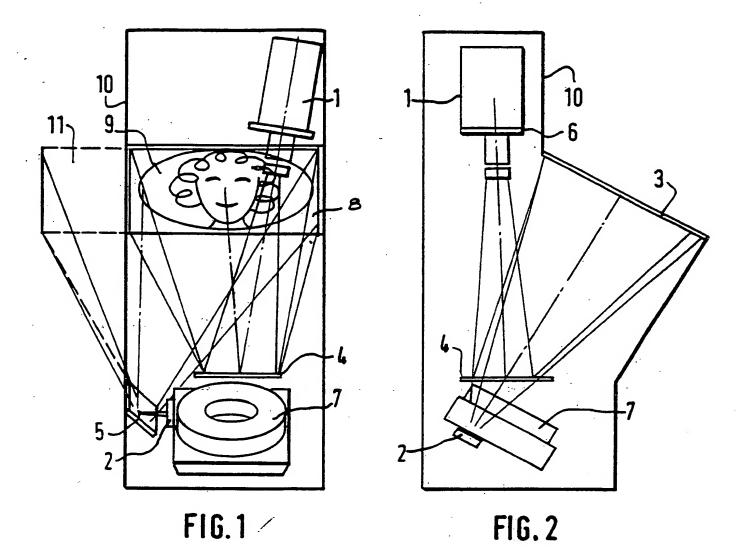
6. Dispositif selon la revendication 5, caractérisé en ce que le projecteur (1) est placé à la partie supérieure du cabinet (10), le projecteur (2) à la partie inférieure, le miroir (4) étant disposé au-dessus et à proximité du projecteur (2).

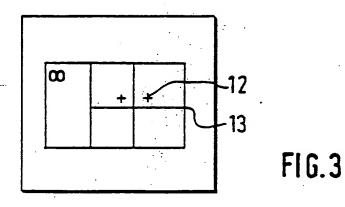
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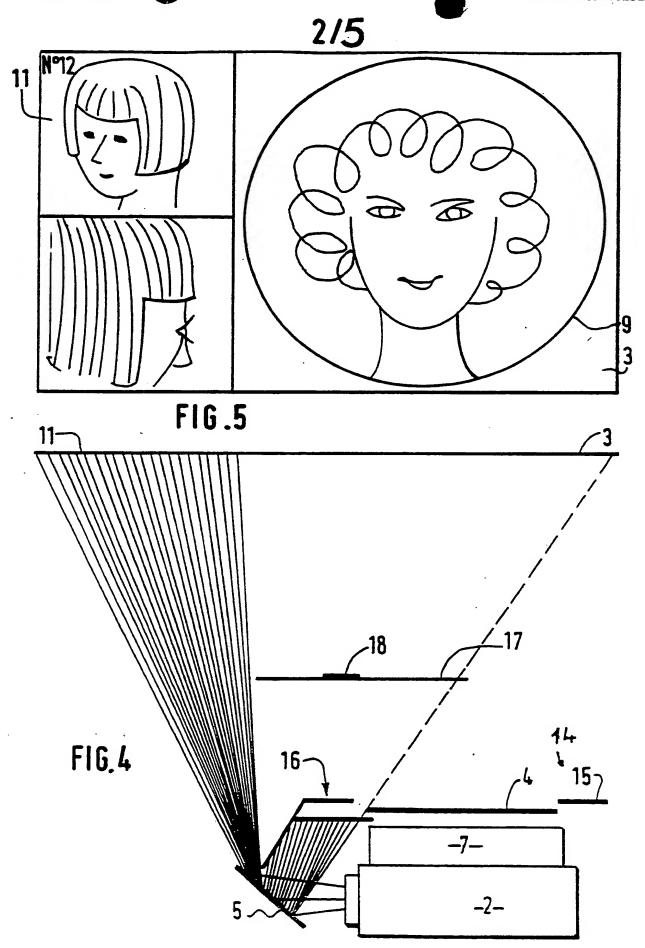
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- 7. Dispositif selon la revendication 1, caractérisé en ce que les deux projecteurs (1, 2) sont superposés à la partie supérieure de l'appareil, l'écran (3) étant monté incliné sur le projecteur (1).
- 8. Dispositif selon la revendication 7, caractérisé en ce que le cabinet (10) est monté sur un pied mobile (19).
 - 9. Dispositif selon l'une des revendications 7 ou 8, caractérisé en ce que le projecteur (1) comporte une glissière latérale (20) pour l'introduction d'une carte portant une diapositive de la cliente.
 - 10. Dispositif selon l'une des revendications 7 à 9, caractérisé en ce que le projecteur (1) comporte des moyens d'ajustement de l'image en fonction de la forme du visage de la cliente et une glissière (21) pour l'introduction d'un cache de correcteur.







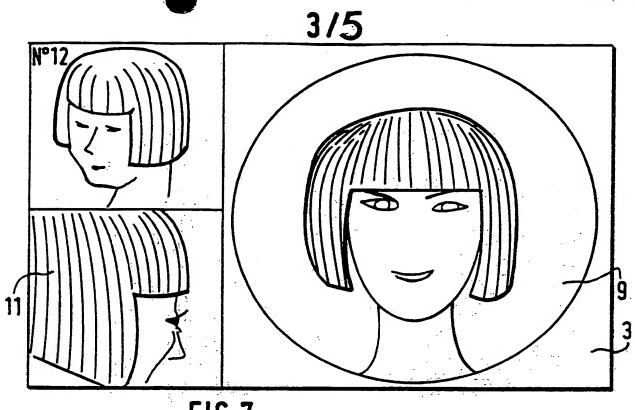
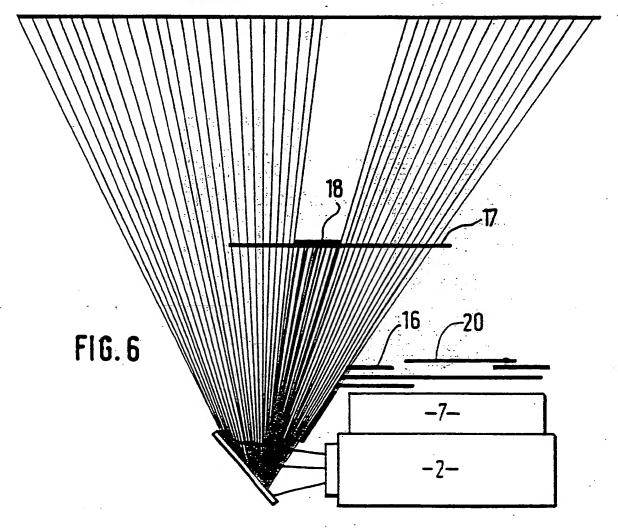


FIG.7



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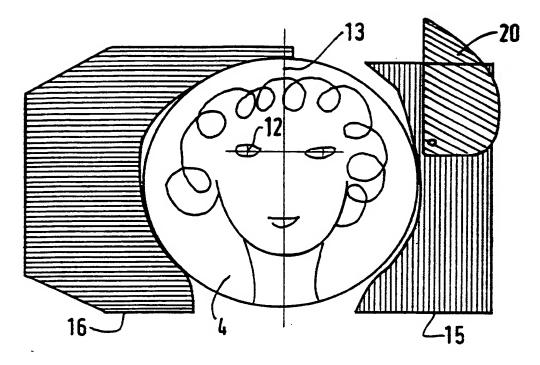


FIG.8

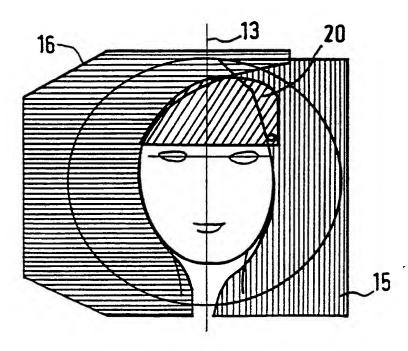
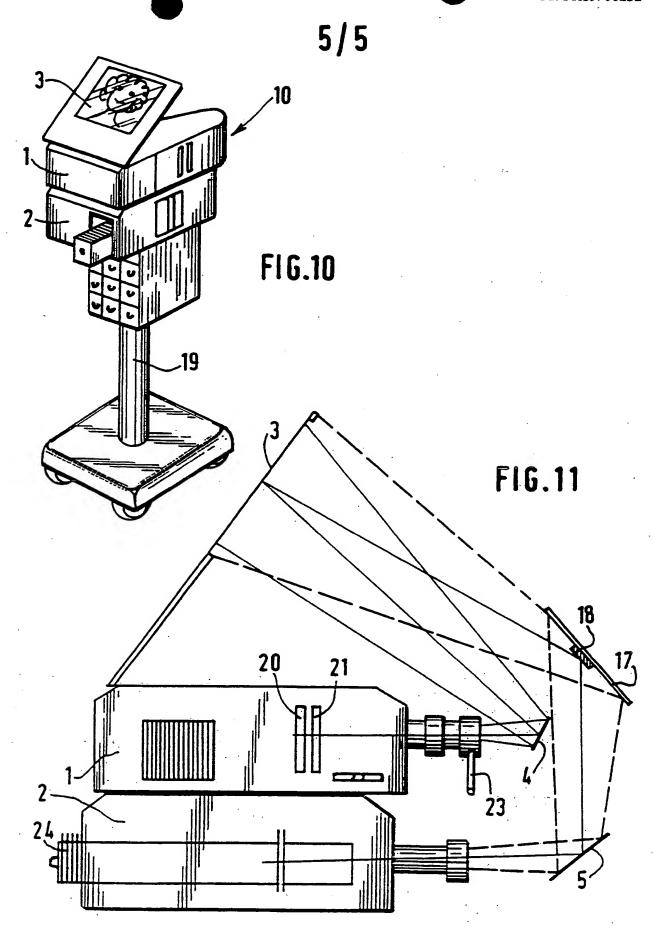


FIG.9



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PCT/FR 89/00232 SA **289**87

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The members are as contained in the European Patent Office EDP file on

The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

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IV. CERTIFICATION

Date à laquelle la recherche internationale a été effectivement achevée

Date d'expédition du présent rapport de recherche internationale

1 8 SEP 1939

23 AOUT 1989

Signature du fonctionnaire autorisé

Administration chargée de la recherche internationale

SIGWALT C.

OFFICE EUROPEEN DES BREVETS

Formulaire PCT/ISA/210 (deuxième femble) (Janvier 1985)

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PCT/FR 89/00232

SA 28987

La présente annexe indique les membres de la famille de brevets relatifs aux documents brevets cités dans le rapport de recherche internationale visé ci-dessus.

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PN - FR2631218 A 19891117

AB - Device for choosing hair styles by formation of a composite image by means of two projectors (1, 2), one (1) of which protects the client's image and the second (2) a hair style selected from a set of hair styles. An adjustable mask (14) is arranged on the optical path of the first projector (1) of the client's image, while a fixed matte (18) and a retractable mask are arranged between the screen and the second projector.

PR - FR19880006516 19880516

AP - FR19880006516 19880516

PA - BOURDIER JEAN CLAUDE (FR); BOURDIER CLAUDE (FR); BOURDIER

FREDERIC (FR); BOURDIER BRIGITTE (FR)

PD - 1989-11-17

EC - A45D44/00S (N)

IC - A45D44/02 : G09F5/00

DT - **

@ WPI / DERWENT

AN - 1989-370504 [50]

TI - Hair style selection superposing unit - projects clients facial image on screen, then masks so that hair style model can be superimposed for trial

AB - WO8911235 An upper projector (1) is used to display, from a slide, a facial image (9) of a hairdresser's client. This is projected onto a <u>frosted</u> screen via a mirror (4), and is masked (8) to produce an oval or circular outline.

- Below, a second projector (2) and slide carousel present, by means of a second mirror (5), views of models wearing various possible hair styles. In each case, the subject's face is obscured by a fixed shutter located before the screen, but can be examined with other details on a collapsible screen (11) located to one side.

USE/ADVANTAGE - Twin projector viewing system allows combination of client's face with various hair styles, thus allowing final choice to be made before problems of irreversibility arise. Comparatively cheap.(1/11)

PN - WO8911235 A 19891130 DW198950 Frn 017pp

- FR2631218 A 19891117 DW199002 000pp
- EP0366779 A 19900509 DW199019 000pp
- JP2504234T T 19901206 DW199104 000pp

PR - FR19880006516 19880516

IN - BOURDIER B E; BOURDIER C H

PA - (BOUR-I) BOURDIER J C

CPY - BOUR-I

AP - WO1989FR00232 19890516;EP19890906132 19890516

IC - A45D44/00 ;G09F5/00 ;G09F9/00

DC - P24 P85

IW - HAIR STYLE SELECT SUPERPOSED UNIT PROJECT CLIENT FACE IMAGE SCREEN MASK SO HAIR STYLE MODEL CAN SUPERIMPOSED TRIAL

CT - EP0092075;FR2447656;FR2478334;US2061378;US3339453;US4258478

OPD - 1988-05-16

ORD - 1989-11-17

DS - AT BE CH DE FR GB IT LU NL SE

DN - JP US

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